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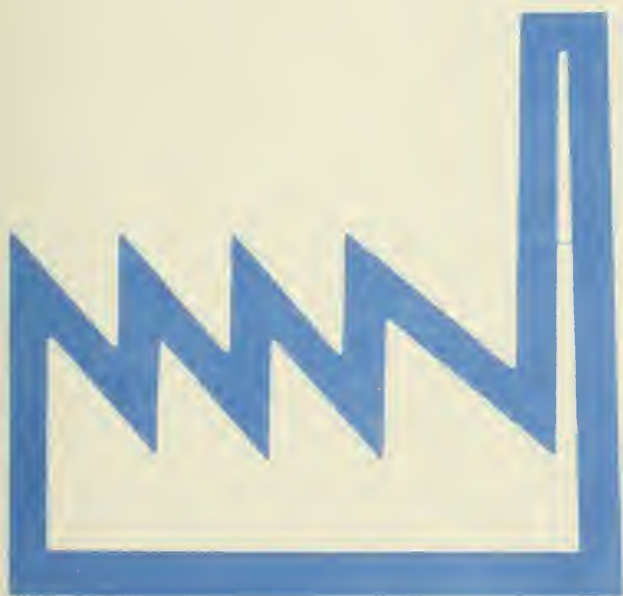
1987

Census of Manufactures

MC87-A-42

GEOGRAPHIC AREA SERIES

South Dakota



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Many persons participated in the various activities of the 1987 Census of Manufactures.

The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Industry Division. **John Govoni**, Assistant Chief for Census/ASM Programs, was responsible for the overall planning, management, and coordination of the census of manufactures. Planning and implementation were under the direction of **Bruce Goldhirsch**, Chief, Special Reports Branch, with primary data analysis responsibilities performed by **Julius Smith**.

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If you have any questions concerning the statistics in this report, call (301) 763-1503.

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South Dakota

Issued October 1990



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INTRODUCTION

PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial

activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures*, *Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent

observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

CENSUS OF MANUFACTURES

General

This report, from the 1987 Census of Manufactures, is 1 of a series of 51 reports for each State and the District of Columbia. Each report contains such statistics as number of establishments, employment, payroll, value added by manufacture, cost of materials consumed, and capital expenditures for each State and its important metropolitan areas, counties, and places, by industry groups and individual industries. Selected statistical totals for "all manufacturing" have been shown for metropolitan areas with 250 employees or more and for counties and places with 450 employees or more.

Additional separate reports have been issued for 83 industry reports, each of which provides statistics for individual industries or groups of related industries and for subjects such as type of organization, distribution of sales by class of customer, and concentration ratios.

The *General Summary* report will contain industry, product class, and geographic area statistics summarized in one report. The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the relationship of value added by manufacture to National income by industry of origin, the changes in statistical concepts over the history of the censuses, and the valuation problems arising from intracompany transfers between manufacturing plants of a company and between manufacturing plants and sales offices and sales branches of a company.

Scope of Census and Definition of Manufacturing

The 1987 Census of Manufactures covers all establishments with one paid employee or more primarily engaged in manufacturing as defined in the *1987 Standard Industrial*

*Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines manufacturing as the mechanical or chemical transformation of substances or materials into new products. The assembly of component parts of products also is considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills that characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfers to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salespersons. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when they are performed primarily for trade. They are considered nonmanufacturing when they are performed primarily to the order of the household consumer.

Relationship Between Annual Survey of Manufactures and Census of Manufactures

The Bureau of the Census conducts the annual survey of manufactures (ASM) in each of the 4 years between the censuses of manufactures. The ASM is a probability-based sample of approximately 56,000 establishments and collects the same industry statistics (employment, payroll, value of shipments, etc.) as the census of manufactures. In addition to collecting the information normally requested on the census form, the establishments in the ASM sample are requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, costs of purchased services, and foreign content of materials consumed. Except for supplemental labor costs, the extra ASM items are collected only in census years.

Establishment Basis of Reporting

The census of manufactures is conducted on an establishment basis. A company operating at more than one location is required to file a separate report for each location. The ASM also is conducted on an establishment basis, but separate reports are filed for just those establishments selected in the sample. Companies engaged in

distinctly different lines of activity at one location are requested to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

In 1987, as in earlier years, a minimum size limit was set for inclusion of establishments in the census. All establishments employing one person or more at any time during the census year are included. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the census figures except for data on number of establishments for a few industries. This report excludes information for separately operated administrative offices, warehouses, garages, and other auxiliary units that service manufacturing establishments of the same company (see Auxiliaries).

Manufacturing Universe and Census Report Forms

The 1987 Census of Manufactures universe includes approximately 350,000 establishments. The amounts of information requested from manufacturing establishments were dependent upon a number of factors. The more important considerations were the size of the company and whether it was included in the annual survey of manufactures. The methods of obtaining information for the various subsets of the universe to arrive at the aggregate figures shown in the publication are described below:

1. Small Single-Establishment Companies Not Sent a Report Form

In the 1987 Census of Manufactures, approximately 150,000 small single-establishment companies were excused from filing reports. Selection of these small establishments was done on an industry-by-industry basis and was based on annual payroll and total shipments data as well as on the industry classification codes contained in the administrative records of Federal agencies. The cutoffs were selected so that these administrative-records cases would account for no more than 3 percent of the value of shipments for all manufacturing. Generally, all single-establishment companies with less than five employees were excused, while all establishments with more than 20 employees were mailed forms.

Information on the physical location of the establishment, as well as information on payrolls, receipts (shipments), and industry classification, was obtained from the administrative records of other Federal agencies under special arrangements, which safeguarded their confidentiality. Estimates of data for these small establishments were developed using industry averages in conjunction with the administrative information. The value of shipments and cost of materials

¹Standard Industrial Classification Manual: 1987: For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, Stock No. 041-001-00314-2.

were not distributed among specific products and materials for these establishments but were included in the product and material "not specified by kind" (n.s.k.) categories.

The industry classification codes included in the administrative-records files were assigned on the basis of brief descriptions of the general activity of the establishment. As a result, an indeterminate number of establishments were erroneously coded at the four-digit SIC level. This was especially true whenever there was a relatively fine line of demarcation between industries or between manufacturing and nonmanufacturing activity.

Sometimes these administrative-record cases were only given a two- or three-digit SIC group. For the 1987 Census of Manufactures, these establishments were sent a separate classification form, which requested information on the products and services of the establishment. This form was used to code many of these establishments to the four-digit SIC level. Establishments that did not return the classification form were coded later to those four-digit SIC industries identified as "not elsewhere classified" (n.e.c.) within the given two- or three-digit industry groups.

As a result of these situations, a number of small establishments may have been misclassified by industry. However, such possible misclassification has no significant effect on the statistics other than on the number of companies and establishments.

The total establishment count for individual industries should be viewed as an approximation rather than a precise measurement. The counts for establishments with 20 employees or more are far more reliable than the count of total number of establishments.

2. Establishments Sent a Report Form

The 200,000 establishments covered in the mail canvass were divided into three groups:

- a. **ASM sample establishments**—This group consisted of approximately 56,000 establishments covering all the units of large manufacturing establishments as well as a sample of the medium and smaller establishments. The probability of selection was proportionate to size (see appendix, Annual Survey of Manufactures).

In a census of manufactures year, the ASM report form (MA-1000) replaces the first page of the regular census form for those establishments included in the ASM. In addition to information on employment, payroll, and other items normally requested on the regular census form, establishments in the ASM sample were requested to supply information on assets, capital expenditures, retirements, depreciation, rental payments, supplemental labor costs, and costs of purchased services. See appendix A, section 2, for an explanation of these items.

The census part of the report form is one of approximately 200 versions containing product, material, and special inquiries. The diversity of manufacturing activities necessitated the use of these many forms to canvass the 459 manufacturing industries. Each form was developed for a group of related industries.

Appearing on each form was a list of products primary to the group of related industries as well as secondary products and miscellaneous services that establishments classified in these industries were likely to be performing. Respondents were requested to identify the products, the value of each product, and, in a large number of cases, the quantity of the product shipped during the survey year. Space also was provided for the respondent to describe products not specifically identified on the form.

The report form also contained a materials-consumed inquiry, which varied from form to form depending on the industries being canvassed. The respondents were asked to review a list of materials generally used in their production processes. From this list, each establishment was requested to identify those materials consumed during the survey year, the cost of each, and, in certain cases, the quantity consumed. Once again, space was provided for the respondent to describe significant material not identified on the form.

Finally, a wide variety of special inquiries was included to measure activities peculiar to a given industry, such as operations performed and equipment used.

- b. **Large and medium establishments (non-ASM)**—Approximately 84,000 establishments were included in this group. A variable cutoff, based on administrative-records payroll data and determined on an industry-by-industry basis, was used to select those establishments that were to receive one of the approximately 200 census of manufactures regular forms. The first page, requesting establishment data for items such as employment and payroll, was standard but did not contain the detailed statistics included on the ASM form. The product, material, and special inquiry sections supplied were based on the historical industry classification of the establishment.
- c. **Small single-establishment companies (non-ASM)**—This group consisted of approximately 60,000 establishments. For those industries where application of the variable cutoff for administrative-records cases resulted in a large number of small establishments being included in the mail canvass, an abbreviated or "short" form was used. These establishments received one of the approximately 80 versions of the short form, which requested

summary product and material data and totals but no details on employment, payrolls, cost of materials, inventories, and capital expenditures.

Use of the short form has no adverse effect on published totals for the industry statistics; the same data were collected on the short form as on the long form. However, detailed information on materials consumed was not collected on the short form; thus its use would increase the value of the n.s.k. categories.

Auxiliaries

Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms. They can be at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two establishments or more. Where auxiliary operations are conducted at the same location as the manufacturing operation and operate as an integral part thereof, they usually are included in the report for the operating manufacturing establishment.

Included in the broad category of auxiliaries are administrative offices. Employees in administrative offices are concerned with the general management of multiestablishment companies, i.e., with the general supervision and control of two units or more, such as manufacturing plants, mines, sales branches, or stores. The functions of these employees may include (1) program planning, including sales research and coordination of purchasing, production, and distribution; (2) company purchasing, including general contracts and purchasing methods; (3) company financial policy and accounting; (4) general engineering, including design of product machinery and equipment, and direction of engineering effort conducted at the individual operation locations; (5) direction of company personnel matters; and (6) legal and patent matters.

Other types of auxiliaries serving the plants or central management of the company include purchasing offices, sales promotion offices, research and development organizations, etc.

In the 1987 census, as in previous censuses, respondents were asked to file separate report forms (ES-9200) for auxiliary units which were at different locations from the establishments served or at the same location as one of those establishments but not operating as an integral part thereof and serving two establishments or more.

This report includes information for separately operated auxiliaries tabulated from form ES-9200. Data for these establishments are included at the total manufacturing level in each table of this report and are shown separately in tables 5 through 9. Also included in this report are data for those auxiliary operations that are conducted at the same location as the manufacturing operation and are

collected as an integral part of the census of manufactures report form for the operating manufacturing establishment. These data are not shown separately in the tables.

A separate report on all separately operated auxiliaries, including those serving nonmanufacturing establishments, will be issued as part of the Enterprise Statistics program of the 1987 Economic Censuses. This report will provide data by industry of the establishment served, by primary activity of the parent company, by size of auxiliary, and by size of the parent company. Data will be presented on employment by type of activity performed by the employees and primary activity of the auxiliary. Information also will be shown on capital expenditures, inventories, and cost of research and development.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 459 manufacturing industries in accordance with the industry definitions in the 1987 SIC Manual. The 1987 edition of this manual represents a major revision for manufacturing industries from the 1972 edition and its 1977 supplement. Appendix A of the 1987 Manual notes the revisions in the four-digit industry levels between 1972/77 and 1987.

An industry is generally defined as a group of establishments producing the same product or a closely related group of products. The product groupings from which industry classifications are derived are based on considerations such as similarity of manufacturing processes, types of materials used, types of customers, and the like. The resulting group of establishments must be significant in terms of number, value added by manufacture, value of shipments, and number of employees. The system operates in such a way that the definitions progressively become narrower with successive additions of numerical digits. For 1987, there are 20 major groups (two-digit SIC), 139 industry groups (three-digit SIC), and 459 industries (four-digit SIC). This represents an expansion of four-digit industries from 452 in 1972/77 and a reduction of three-digit groups from 143 in 1972/77. Product classes and products of the manufacturing industries have been assigned codes based on the industry from which they originate. There are about 11,000 products identified by a seven-digit code. The seven-digit products are considered the primary products of the industry with the same four digits.

Accordingly, an establishment is usually classified in a particular industry on the basis of its major activity during a particular year, i.e., production of the products primary to that industry exceeds, in value, production of the products primary to any other single industry. In a few instances, however, the industry classification of an establishment is not only determined by the products it makes but also by the process employed in operations. Refining of nonferrous metals from ore or rolling and drawing of nonferrous metals (processes which involve heavy capitalization in specialized equipment) would be classified according to

the process used during a census year. These establishments then would be "frozen" in that industry during the following ASM years.

In either a census or ASM year, establishments included in the ASM sample with certainty weight, other than those involved with heavily capitalized activities described above, are reclassified by industry only if the change in the primary activity from the prior year is significant or the change has occurred for 2 successive years. This procedure prevents reclassification when there are minor shifts in product mix.

In ASM years, establishments included in the ASM sample with noncertainty weight are not shifted from one industry classification to another. They are retained in the industry where they were classified in the base census year (see appendix, Annual Survey of Manufactures). However, in the following census year, these ASM plants are allowed to shift from one industry to another.

The result of these rules covering the switching of plants from one industry classification to another is that, at the aggregate level, some industries comprise different mixes of establishments between survey years, and establishment data for such industry statistics as employment and payroll may be tabulated in different industries between survey years. Hence, comparisons between prior-year and current-year published totals, particularly at the four-digit SIC level, should be viewed with caution. This is particularly true for the comparison between the data shown for a census year versus the data shown for the previous ASM year.

As previously noted, the small establishments that may have been misclassified by industry are usually administrative-record cases whose industry codes were assigned on the basis of incomplete descriptions of the general activity of the establishment. Such possible misclassifications have no significant effect on the statistics other than on the number of companies and establishments.

While some establishments produce only the primary products of the industry in which they are classified, all establishments of an industry rarely specialize to this extent. The industry statistics (employment, inventories, value added by manufacture, total value of shipments including resales and miscellaneous receipts, etc.), therefore, reflect not only the primary activities of the establishments in that industry but also their secondary activities.

The extent to which industry and product statistics may be matched with each other is measured by two ratios which are computed from the figures shown in table 5b. The first of these ratios, called the primary product specialization ratio, measures the proportion of product shipments (both primary and secondary) of the establishments classified in the industry represented by the primary products of those establishments. The second ratio, called the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

However, establishments making products falling into the same industry category may use a variety of processes and materials to produce them. Also, the same industry classification (based on end products) may include both establishments that are highly integrated and those that put only the finishing touches on an already highly fabricated item. For example, the refrigeration equipment industry includes instances of almost complete integration (production of the compressor, condensing unit, electric motor, casting, stamping of the case, and final assembly) all carried on at one plant. On the other hand, the condensing unit, the motor, and the case may be purchased and only assembled into the finished product.

In some instances, separate industry categories have been established for integrated and nonintegrated establishments. For other industries, the census provides separate statistics on the production of intermediate commodities made and used in the producing plant. For some industries characterized by many plants of the same company, separate figures on interplant transfers of products usually are shown.

Differences in the integration of production processes, types of operations, and alternatives in types of materials used should be considered when relating the industry statistics (employment, payrolls, value added, etc.) to the product and material data.

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required to tabulate the census data for States, metropolitan areas (MA's), counties, and incorporated municipalities including cities, towns, villages, boroughs, and townships.

A computerized system was developed which assigned an area code number and a prefix symbol to the mailing address before the questionnaires were mailed. The assignment of tentative code numbers by the computer was based on extensive reference files which have been continually updated and expanded. The prefix symbol indicated whether the information contained in the mailing address was sufficient to provide a clearly acceptable area code or whether there was some question about the physical location of the establishment. An example of this situation is when the mailing address is a P.O. box or a central office. Respondents were required to report their physical location (street address, municipality, county, and State) if it differed from their mailing address.

Whenever the respondent reported a physical location different from the mailing address, the corrected address was used to assign a geographic code to the establishment. In addition, if the prefix symbol indicated any question about the acceptability of the mailing address, the information received from the respondent on the actual location was later carefully reviewed. As in previous censuses, the mailing address of the establishment was not

always accepted as defining the physical location. For nonmail establishments (and those single-establishment companies that did not provide acceptable information on physical location), location information from the Internal Revenue Service tax forms was used as a basis for coding.

GEOGRAPHIC AREAS COVERED

The State—Total data for each State and District of Columbia are published in tables 1 through 4. Table 5 presents data by State for two-, three-, and four-digit SIC industries with 150 manufacturing employees or more, except those whose inclusion would disclose data for individual companies.

Metropolitan Statistical Areas (MSA's)—An MSA is an integrated economic and social unit with a large population nucleus. Each MSA consists of one or more counties or statistically equivalent areas meeting published standards of population and metropolitan character; in the six New England States (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont), cities and towns (rather than counties) are used as the component geographic units.

An MSA with a population of 1 million or more may be subdivided into primary metropolitan statistical areas (PMSA's). A PMSA consists of a large urbanized county or a cluster of counties (cities and towns in New England) that demonstrate very strong internal economic and social links separate from the ties to other portions of its MSA.

Where PMSA's are defined, the MSA of which they are component parts is redesignated a consolidated metropolitan statistical area (CMSA).

Table 4 shows all manufacturing totals for MSA's, CMSA's, and PMSA's. Table 6 includes industry detail at two-, three-, and four-digit SIC level for MSA's, CMSA's, and PMSA's with 250 manufacturing employees or more, except those whose inclusion would disclose the data for individual companies.

Industrial counties or county equivalents—Counties are the primary divisions of States, except in Louisiana where they are called parishes and in Alaska where they are called boroughs and census areas. Georgia, Maryland, Missouri, Nevada, and Virginia have one place or more that is independent of any county organization and constitutes primary divisions of their States. These places are treated as counties. Table 4 represents total data for counties. Table 7 presents data by county for two-, three-, and four-digit industries with 450 manufacturing employees or more, except data whose inclusion would disclose data for individual companies.

Places with 450 manufacturing employees or more—The term "places" includes boroughs, towns, and villages, except boroughs in Alaska and New York. For

census purposes, places are defined as incorporated municipalities with populations of at least 2,500, or unincorporated municipalities with populations of at least 25,000, based on the 1980 population census. In addition, a few "industrial park" areas of substantial manufacturing activity but with population below the specified limits have been included in the 1987 Census of manufactures. Table 4 presents total data for places with 450 manufacturing employees or more. Table 8 presents data by places for two-, three-, and four-digit industries with 450 manufacturing employees or more, except those whose inclusions would disclose data for individual companies.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 4 through 8 of this report is based on the total value of shipments. When the total value of shipments cannot be shown without disclosing information for individual companies, the complete line is suppressed. However, the suppressed data are included in higher-level totals. Additional disclosure analysis is performed for new capital expenditures that can be suppressed even though value of shipments data are publishable.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Manufactures may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(IC)	Independent city
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards

(X)	Not applicable.
(Z)	Less than half the unit shown.
CMSA	Consolidated metropolitan statistical area.
do	Ditto.
MSA	Metropolitan statistical area.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
PMSA	Primary metropolitan statistical area.
pt.	Part.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, doz, bbl, and s tons, are used in the customary sense.

CONTACTS FOR DATA USERS

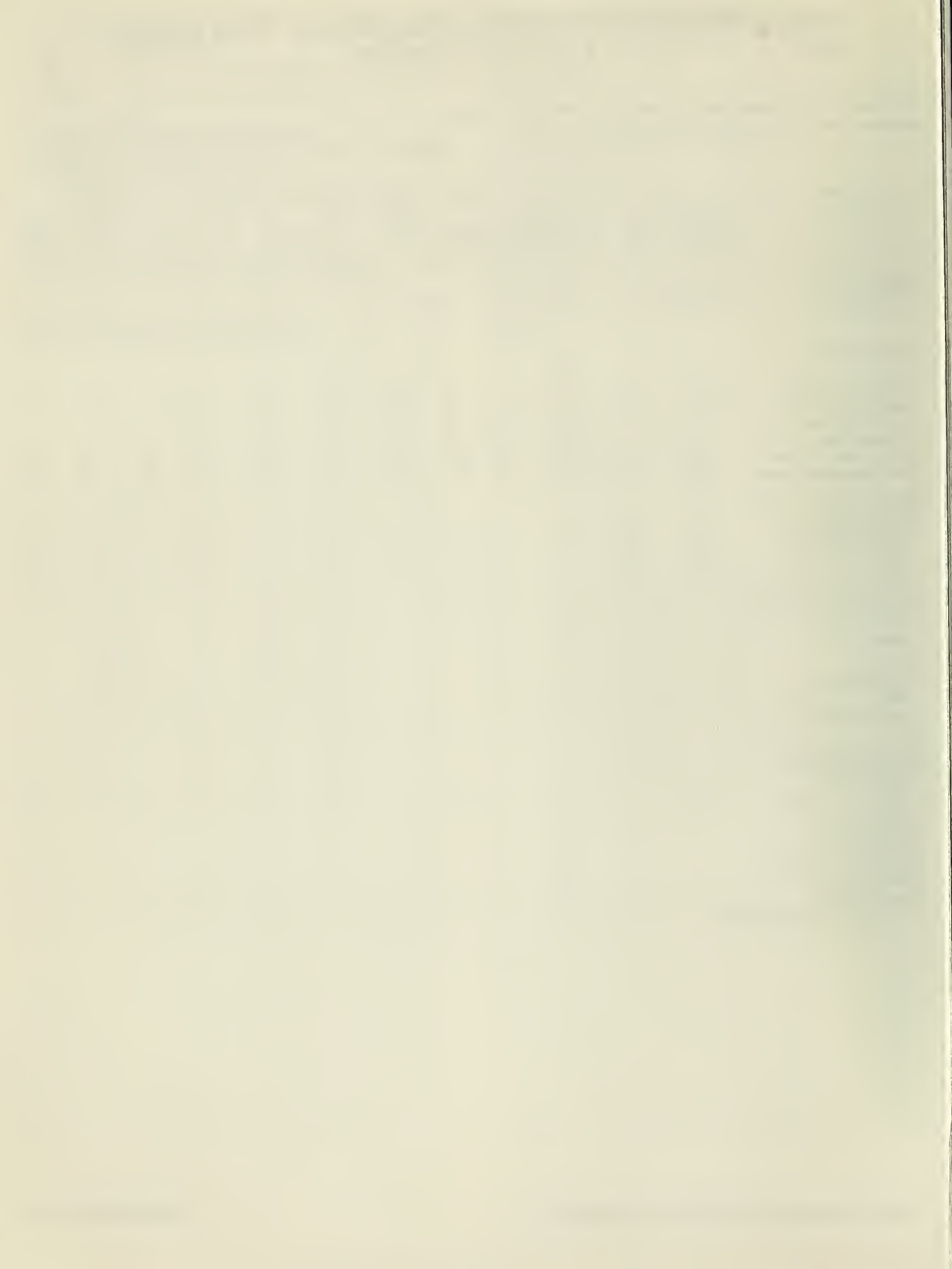
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Census/ASM		
Durables	Kenneth Hansen	(301) 763-7304
Nondurables	Michael Zampogna	(301) 763-2510
Current Industrial Reports		
Durables	Malcolm Bernhardt	(301) 763-2518
Nondurables	Thomas Flood	(301) 763-5911
Import/Export Publications	Foreign Trade Division	(301) 763-5140
Industry Analysis and Forecasts	International Trade Administration	(202) 377-4356

Users' Guide for Locating Statistics in This Report by Table Number

[For definitions of metropolitan areas and explanation of terms, see appendixes]

Item	State statistics				Metropolitan area statistics				County statistics		Statistics for selected places	
	Historical	Operating ratios	All manufacturing totals	By selected industry	Historical (selected areas)	Operating ratios (selected areas)	All manufacturing totals	By selected industry	All manufacturing totals	By selected industry	All manufacturing totals	By selected industry
Number of establishments:												
Total	2a		*3, 4	5	2a		4	6	4	7	4	8
By employment-size class				9						9		
Number of companies			3									
Employment and payroll:												
Number of employees	1, 2a	2b	3, 4	5	2a	2b	4	6	4	7	4	8
Payroll	1, 2a	2b	3, 4	5	2a	2b	4	6	4	7	4	8
Supplemental labor costs			*3									
Production workers	2a	2b	*3, 4	5	2a	2b	4	6	4	7	4	8
Production-worker hours	2a	2b	*3, 4	5	2a	2b	4	6	4	7	4	8
Production-worker wages	2a	2b	3, 4	5	2a	2b	4	6	4	7	4	8
Shipments, cost of materials, and value added:												
Value of shipments	2a	2b	3, 4	5	2a	2b	4	6	4	7	4	8
Value added by manufacture	2a	2b	3, 4	5	2a	2b	4	6	4	7	4	8
Cost of materials	2a	2b	*3, 4	5	2a	2b	4	6	4	7	4	8
Cost of fuels and electric energy			3									
Quantity of electric energy			*3									
Inventories:												
Beginning and end of year			*3									
Stage of fabrication			*3									
Expenditures, assets, rents, and purchased services:												
New capital expenditures	2a		*3, 4	5	2a		4	6	4	7	4	8
Used plant and equipment expenditures			*3									
Gross assets			*3									
Depreciation			*3									
Retirements of buildings and machinery			*3									
Rental payments			*3									

*Detailed information shown.



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SUMMARY OF FINDINGS

In 1987, 27.5 thousand persons were employed in South Dakota's manufacturing establishments. This figure represented an increase of 12 percent from the 1982 figure of 24.5 thousand workers.

The total value added by manufacture for the State amounted to \$1.5 billion in 1987. This figure, along with all dollar figures in this report, are at prices current for the year specified, and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

In the State, the leading industry groups ranked by employment were food and kindred products, industrial machinery and equipment, electronic and other electric equipment, and printing and publishing. They accounted for approximately 62 percent of the State's 1987 employment.

The leading counties in the State ranked by employment were Minnehaha, Pennington, Brown, and Codington. They accounted for approximately 60 percent of the State's 1987 manufacturing employment. These same counties were the leaders in 1982 when they also accounted for approximately 60 percent of the State's employment.

The methods of data collection and use of administrative-record data are discussed in detail in the introduction. Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received in time to be tabulated) were obtained from administrative records of other agencies or developed from industry averages. For this State, these establishments accounted for 10 percent of the total value of shipments.

SOUTH DAKOTA - Metropolitan Statistical Area, Counties, and Selected Places

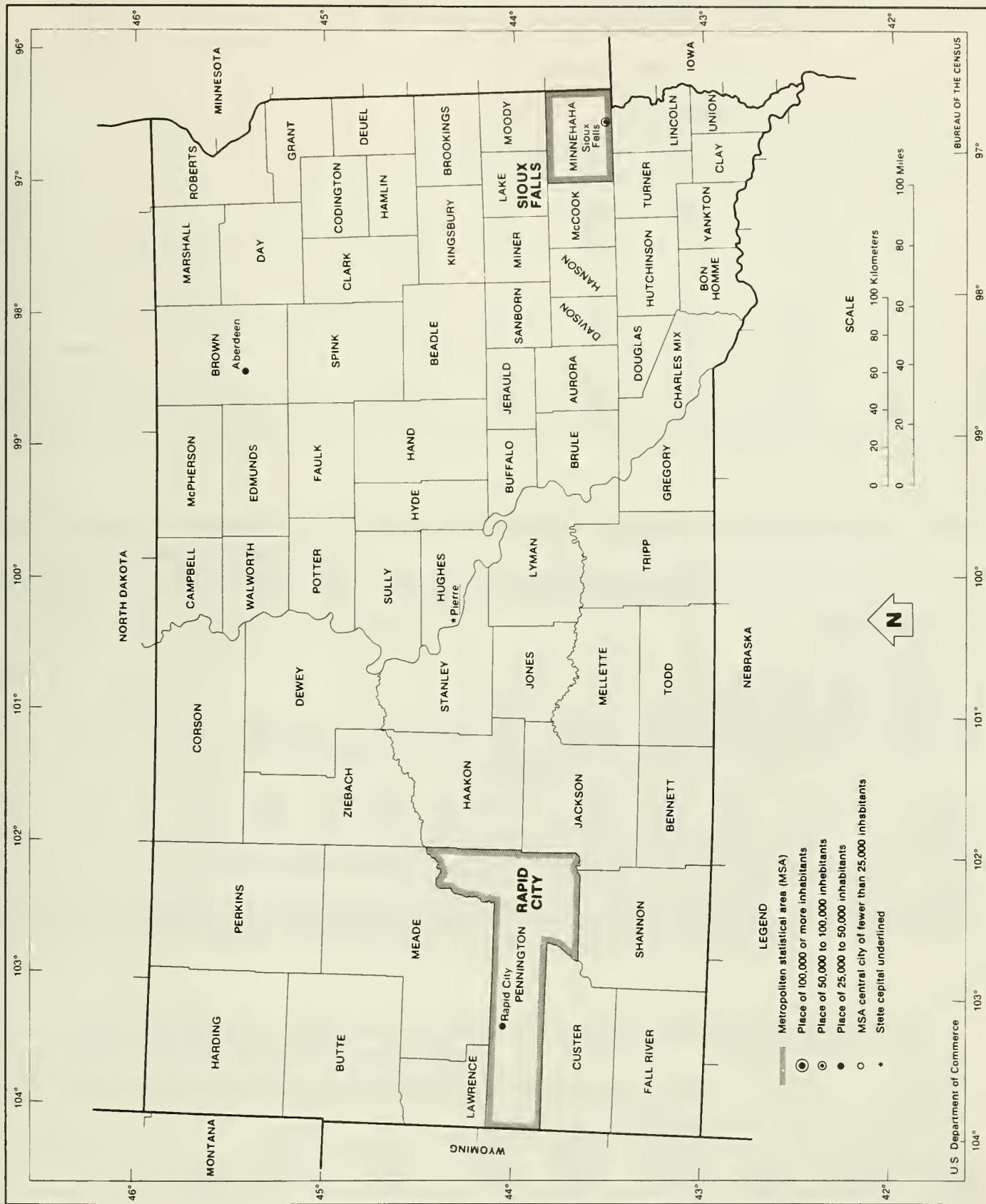




Table 1. Historical Employment Statistics for Operating Manufacturing Establishments and Auxiliaries for the State and Metropolitan Statistical Areas: 1987 and Earlier Census Years

[For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, and general geographic information, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area and year	All establishments		Operating manufacturing establishments		Auxiliaries ¹	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
SOUTH DAKOTA						
1987 Census.....	27.5	497.9	27.2	489.4	.3	8.5
1982 Census.....	24.5	397.9	24.4	394.3	.1	3.6
1977 Census.....	22.5	251.4	22.4	249.0	.1	2.4
1972 Census.....	17.4	134.5	(D)	(D)	(D)	(D)
METROPOLITAN STATISTICAL AREAS						
Rapid City, SD MSA						
1987 Census.....	3.5	68.2	(D)	(D)	(D)	(D)
1982 Census.....	3.1	47.9	(NA)	(NA)	(NA)	(NA)
Sioux Falls, SD MSA						
1987 Census.....	8.9	164.8	(D)	(D)	(D)	(D)
1982 Census.....	8.3	161.7	8.2	158.7	.1	3.0
1977 Census.....	7.6	100.5	(D)	(D)	(D)	(D)
1972 Census.....	6.9	64.6	(D)	(D)	(D)	(D)

¹Defined in introductory text. Data for these establishments are included at the total manufacturing level in each table in this report. Data for these establishments are shown separately in tables 5 through 9.

Table 2a. Historical Statistics for the State and Selected Metropolitan Statistical Areas: 1987 and Earlier Census Years

[Includes operating manufacturing establishments and auxiliaries. Includes MSA's with 40,000 manufacturing employees or more. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Year¹	All establishments²		All employees		Production workers			Value added by manufacturing³ (million dollars)	Cost of materials⁴ (million dollars)	Value of shipments⁴ (million dollars)	New capital expenditures (million dollars)	Comparative indexes and U.S. employment			
	Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					Percent of U.S. manufacturing employment	Index of State/MSA employment change (1977 = 100)	Index of U.S. manufacturing employment change (1977 = 100)	U.S. manufacturing employment (1,000)
	SOUTH DAKOTA														
1987 Census ..	764	231	27.5	497.9	19.9	38.8	312.6	1 476.1	2 406.8	3 858.7	79.3	.15	122	97	18 933.6
1982 Census ..	748	205	24.5	397.9	17.5	32.6	261.9	1 100.2	1 905.1	3 005.2	62.3	.13	109	98	19 137.2
1977 Census ..	740	195	22.5	251.4	16.7	32.0	169.1	611.6	1 184.7	1 793.7	36.7	.11	100	100	19 596.9
1972 Census ..	606	171	17.4	134.5	12.9	25.1	89.4	284.5	658.2	936.6	20.1	.09	77	98	19 028.7

¹For intercensal data for the years between 1963 and 1978, see the 1978-1979 Annual Survey of Manufactures (ASM) clothbound volume. For intercensal State data for the years 1983 through 1986, see 1986 Annual Survey of Manufactures, Geographic Area Statistics, (M86(AS)-3) table 1. For data prior to 1963, see the 1963 Census of Manufactures, vol. III, table 2 of the State chapter.

²Includes establishments with payroll at any time during year.

³Value added by manufacture for 1982 is computed using inventory data reported at cost or market prior to any adjustment to LIFO cost. This uniform instruction is a change from prior years in which respondents were permitted to value their inventories using any generally accepted accounting method. Consequently, 1987 and 1982 data for value added by manufacture are not comparable to prior-year data. For further explanation, see Inventories in appendixes.

⁴Aggregate of cost of materials and value of shipments includes extensive duplication since products of some industries are used as materials by others.

Table 2b. Selected Operating Ratios for the State and Selected Metropolitan Statistical Areas: 1987 and Earlier Census Years

[Includes operating manufacturing establishments and auxiliaries. Includes MSA's with 40,000 manufacturing employees or more. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area and year	Payroll per employee (dollars)	Production worker as percent of total employment (percent)	Annual hours of production workers (number)	Average hourly earnings of production workers (dollars)	Cost of materials as percent of value of shipments (percent)	Cost of materials and payroll as percent of value of shipments (percent)	Value added per employee (dollars)	Payroll as percent of value added (percent)	Value added per production-worker hour (dollars)
SOUTH DAKOTA									
1987 Census ..	18 105	73	1 945	8.04	62	75	53 676	34	38.04
1982 Census ..	16 241	71	1 863	8.03	63	77	44 906	36	33.75
1977 Census ..	11 173	74	1 916	5.28	66	80	27 182	41	19.11
1972 Census ..	7 730	74	1 946	3.56	70	85	16 351	47	11.33

Note: For qualifications of data, see footnotes in table 2a.

Table 3. Summary Statistics for the State: 1987

[Includes operating manufacturing establishments and auxiliaries. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	Item	1987
Companies ¹	705	Inventories by stage of fabrication:	
All establishments ²	764	Beginning of year	324.5
With 1 to 19 employees	533	Finished goods	114.9
With 20 to 99 employees	172	Work-in-process	78.3
With 100 employees or more	59	Materials and supplies	131.3
Employment and labor costs:		End of year	406.3
Employees	1,000..	Finished goods	132.7
Compensation, total	604.8	Work-in-process	84.9
Annual payroll	497.9	Materials and supplies	188.7
Fringe benefits	106.8	Gross book value of depreciable assets:	
Social Security and other legally required payments	45.2	Total:	
Employer payments and other programs	61.7	Beginning of year	813.2
Production workers:		New capital expenditures	79.3
Average for year	1,000..	Used capital expenditures	13.1
March	19.9	Retirements	21.4
May	19.2	End of year	884.1
August	17.7	Buildings and other structures:	
November	21.7	Beginning of year	204.5
Hours	20.9	New capital expenditures	15.9
January to March	38.8	Used capital expenditures	3.0
April to June	9.5	Retirements	3.2
July to September	9.1	End of year	220.2
October to December	10.3	Machinery and equipment:	
Wages	312.6	Beginning of year	608.7
Value added by manufacture	1 476.1	New capital expenditures	63.4
Cost of materials ³	2 406.8	Used capital expenditures	10.1
Materials, parts, containers, etc., consumed	2 120.6	Retirements	18.2
Resales	223.6	End of year	664.0
Fuels	13.8	Depreciation charges during 1987:	
Purchased electricity	25.9	Total	68.6
Contract work	22.8	Buildings and other structures	10.4
Quantity of electric energy used for heat and power:		Machinery and equipment	58.2
Purchased	590.6	Rental payments:	
Generated less sold	(S)	Total	14.0
Value of shipments ³	3 858.7	Buildings and other structures	5.8
		Machinery and equipment	8.2

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during year.

³Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

Table 4. Statistics for the State, Metropolitan Statistical Areas, Counties, and Selected Places: 1987

[Includes operating manufacturing establishments and auxiliaries. Includes places with 450 manufacturing employees or more. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area	E ¹	All establishments ²		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
South Dakota	E1	764	231	27.5	497.9	19.9	38.8	312.6	1 476.1	2 406.8	3 858.7	79.3
METROPOLITAN STATISTICAL AREAS												
Rapid City, SD MSA	-	102	32	3.5	68.2	2.4	5.0	37.4	161.0	237.4	398.2	6.2
Sioux Falls, SD MSA	-	138	50	8.9	164.8	6.3	11.5	100.4	463.8	1 063.2	1 518.2	20.7
COUNTIES												
Aurora County	E9	3	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Beadle County	E5	22	9	.6	12.9	.4	.9	8.6	32.9	190.4	225.1	1.9
Bennett County	E3	3	1	(Z)	.4	(Z)	(Z)	.2	.8	.9	1.7	(Z)
Bon Homme County	-	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Brookings County	-	24	9	1.4	30.9	1.1	2.2	24.6	193.8	139.5	334.3	9.0
Brown County	-	33	11	2.0	40.6	1.4	3.0	25.9	123.5	106.3	228.2	4.5
Brule County	E9	6	1	.1	.9	(Z)	.1	.4	2.9	2.4	5.4	.1
Buffalo County	E9	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Butte County	E9	9	-	(Z)	.4	(Z)	(Z)	.2	1.0	.9	2.0	(D)
Campbell County	E9	4	-	(Z)	.3	(Z)	(Z)	.1	.7	.6	1.3	(D)
Charles Mix County	E1	7	1	(Z)	.6	(Z)	.1	.3	.7	2.0	2.6	(Z)
Clark County	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Clay County	E4	12	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Codington County	E1	46	19	2.0	32.9	1.5	3.1	20.5	88.8	86.4	168.9	4.0
Corson County	E9	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Custer County	E3	8	1	(Z)	.6	(Z)	.1	.5	1.1	.8	1.9	(Z)
Davison County	-	27	12	1.1	19.3	.8	1.7	12.7	34.1	98.9	133.5	2.2
Day County	-	11	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Deuel County	E4	6	-	.1	.7	(Z)	.1	.5	1.3	1.3	2.6	.1
Dewey County	-	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Douglas County	E9	4	-	(Z)	.1	(Z)	(Z)	.1	.4	.2	.6	(Z)
Edmunds County	E9	6	-	(Z)	.3	(Z)	(Z)	.1	.6	1.0	1.6	(Z)
Fall River County	E8	7	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Faulk County	E9	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Grant County	-	12	5	.4	9.1	.3	.7	6.4	28.0	74.4	102.1	(D)

See footnotes at end of table.

Table 4. Statistics for the State, Metropolitan Statistical Areas, Counties, and Selected Places: 1987—Con.

[Includes operating manufacturing establishments and auxiliaries. Includes places with 450 manufacturing employees or more. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area	E ¹	All establishments ²		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ³ (million dollars)	Value of shipments ³ (million dollars)	New capital expenditures (million dollars)
		Total (no.)	With 20 employees or more (no.)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
COUNTIES—Con.												
Gregory County	E9	9	1	(Z)	.5	(Z)	.1	.3	1.2	3.2	4.4	(Z)
Heakon County	-	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hemlin County	E9	5	-	(Z)	.1	(Z)	(Z)	.1	(D)	.2	.4	(Z)
Hend County	E5	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Henson County	E9	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Harding County	E9	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Hughes County	-	8	3	.2	2.3	.2	.3	1.9	10.4	11.8	22.2	.9
Hutchinson County	E4	18	5	.3	5.2	.2	.5	3.1	24.4	33.9	57.6	.8
Hyde County	E9	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jackson County	E9	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jerauld County	E9	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Jones County	E9	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Kingsbury County	E1	9	2	.2	2.8	.1	.2	1.6	4.8	6.4	11.3	.1
Lake County	-	14	8	.6	10.8	.5	.9	6.5	33.8	30.3	63.7	.6
Lawrence County	E5	34	7	.5	10.5	.4	.8	7.2	24.5	33.5	58.1	.9
Lincoln County	E1	18	4	.4	7.6	.3	.6	4.9	16.3	12.0	28.0	1.2
McCook County	E1	9	2	.2	3.3	.2	.3	2.5	6.8	6.3	13.0	(D)
McPherson County	E3	5	-	(Z)	.3	(Z)	(Z)	.1	.6	2.1	2.9	(D)
Marshall County	-	10	5	.3	3.9	.3	.5	3.2	20.8	15.6	36.1	(D)
Meade County	E1	13	4	.2	3.4	.1	.3	2.1	10.4	13.8	24.8	.7
Miner County	E9	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Minnehaha County	-	138	50	8.9	164.8	6.3	11.5	100.4	463.8	1 063.2	1 518.2	20.7
Moody County	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pennington County	-	102	32	3.5	68.2	2.4	5.0	37.4	161.0	237.4	398.2	6.2
Perkins County	-	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Potter County	-	6	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Roberts County	E2	6	1	.1	.7	.1	.1	.6	2.5	1.9	4.4	(D)
Sanborn County	-	4	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Shannon County	E9	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Spink County	E4	5	-	(Z)	.3	(Z)	(Z)	.1	.8	2.0	2.9	(Z)
Sully County	E9	2	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Todd County	E9	1	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Tripp County	E9	5	-	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Turner County	E3	9	-	(Z)	.3	(Z)	(Z)	.3	1.0	.5	1.5	(Z)
Union County	-	17	10	.9	16.2	.7	1.3	10.8	33.4	42.7	75.5	2.8
Wetworth County	-	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Yankton County	-	24	11	1.5	26.3	1.0	2.2	15.6	76.0	120.4	193.3	10.7
PLACES												
Aberdeen	-	25	10	2.0	40.1	1.4	2.9	25.5	122.2	105.2	225.8	(D)
Brookings	-	15	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Huron	E5	17	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Madison	-	12	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mitchell	-	21	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Rapid City	-	82	26	2.9	58.1	2.0	4.1	31.2	134.7	204.9	339.8	4.6
Sioux Falls ▲	-	112	43	8.5	156.7	6.1	11.0	96.4	444.7	1 026.9	1 462.7	19.8
Watertown	E1	43	19	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Yankton	-	20	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll, employment, and sales data for some small single unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Includes establishments with payroll at any time during year.

³Aggregate of cost of materials and value of shipments includes extensive duplication, since products of some industries are used as materials by others (see appendixes).

Table 5. Statistics by Selected Industry Group and Industry for the State: 1987 and 1982

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	1987												1982	
		All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)	
		E	Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	764	231	27.5	497.9	19.9	38.8	312.6	1 476.1	2 406.8	3 858.7	79.3	24.5	1 100.2
20	Food and kindred products -----	-	94	45	7.4	139.6	5.6	10.2	93.0	383.6	1 447.5	1 825.5	17.3	7.5	422.5
201	Meat products -----	-	18	10	4.6	85.8	3.7	6.6	62.8	217.7	1 048.0	1 267.4	5.5	4.5	285.4
2011	Meat packing plants -----	-	11	6	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	275.9
2013	Sausages and other prepared meats -----	-	4	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2015	Poultry slaughtering and processing -----	-	3	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
202	Dairy products -----	-	29	12	1.0	19.3	.6	1.3	11.2	61.0	239.3	293.0	2.7	1.0	50.7
2022	Cheese, natural and processed -----	-	17	6	.5	10.0	.4	.9	7.7	32.1	149.8	175.4	1.5	.4	16.7
2026	Fluid milk -----	-	7	4	.4	7.5	.1	.3	2.7	26.6	68.0	93.8	(D)	CC	(D)
204	Grain mill products -----	E3	22	10	.4	9.5	.2	.5	4.5	31.0	89.9	121.1	(D)	.5	27.4
2048	Prepared feeds, n.e.c. -----	E3	21	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
205	Bakery products -----	-	7	5	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2051	Bread, cake, and related products -----	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
2052	Cookies and crackers -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
208	Beverages -----	-	11	6	.3	7.6	.2	.4	4.0	21.4	32.0	53.2	1.6	.4	14.4
2086	Bottled and canned soft drinks -----	-	9	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
22	Textile mill products -----	-	3	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
229	Miscellaneous textile goods -----	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2297	Nonwoven fabrics -----	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
23	Apparel and other textile products -----	E1	26	14	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	13.6
232	Men's and boys' furnishings -----	E3	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2329	Men's and boys' clothing, n.e.c. -----	E3	5	4	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
239	Miscellaneous fabricated textile products -----	E1	16	7	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
2392	Housefurnishings, n.e.c. -----	-	6	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
24	Lumber and wood products -----	E3	65	14	1.5	26.3	1.3	2.4	19.8	75.7	78.9	154.6	4.9	1.6	37.1
242	Sawmills and planing mills -----	E8	17	6	.5	9.1	.4	.9	7.4	20.7	25.0	45.8	1.4	.5	9.5
2421	Sawmills and planing mills, general -----	E8	15	6	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	9.5
243	Millwork, plywood, and structural members -----	-	21	4	.5	7.6	.4	.7	4.9	17.7	13.6	31.2	.8	.3	11.5
2434	Wood kitchen cabinets -----	-	10	2	.3	5.5	.3	.5	3.6	12.8	8.3	21.1	(D)	(NA)	(NA)
249	Miscellaneous wood products -----	-	6	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2493	Reconstituted wood products -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
25	Furniture and fixtures -----	E1	13	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
26	Paper and allied products -----	-	8	4	.5	9.0	.4	.7	6.1	29.8	33.1	62.2	(D)	(NA)	(NA)
265	Paperboard containers and boxes -----	E2	6	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2653	Corrugated and solid fiber boxes -----	-	5	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
267	Miscellaneous converted paper products -----	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
2673	Bags, plastics, laminated, and coated -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
27	Printing and publishing -----	E2	190	27	2.5	37.1	1.2	2.3	17.2	89.5	37.1	126.6	5.8	2.4	68.3
271	Newspapers -----	E2	104	16	1.5	19.3	.6	1.1	7.2	51.0	13.1	64.1	1.8	1.3	36.9
2711	Newspapers -----	E2	104	16	1.5	19.3	.6	1.1	7.2	51.0	13.1	64.1	1.8	1.3	36.9
275	Commercial printing -----	E1	67	9	.9	15.3	.6	1.2	9.4	30.6	21.2	51.8	3.8	(NA)	(NA)
2752	Commercial printing, lithographic -----	E2	52	6	.6	8.6	.4	.7	5.5	17.0	9.1	26.2	(D)	.5	9.5
2759	Commercial printing, n.e.c. -----	-	15	3	.3	6.7	.2	.5	3.9	13.7	12.1	25.6	(D)	(NA)	(NA)
28	Chemicals and allied products -----	E7	23	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	9.5
30	Rubber and miscellaneous plastics products -----	-	27	12	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	17.4
305	Hose and belting and gaskets and packing -----	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3053	Gaskets, packing, and sealing devices -----	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
306	Fabricated rubber products, n.e.c. -----	-	5	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3061	Mechanical rubber goods -----	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
308	Miscellaneous plastics products, n.e.c. -----	-	20	9	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3089	Plastics products, n.e.c. -----	E1	10	5	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
32	Stone, clay, and glass products -----	E2	67	10	.7	15.1	.5	1.1	10.1	32.7	31.9	65.2	1.9	1.3	59.5
327	Concrete, gypsum, and plaster products -----	E2	54	7	.6	11.4	.4	.8	7.4	24.6	26.5	51.9	1.2	.6	22.7
3271	Concrete block and brick -----	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3273	Ready-mixed concrete -----	E4	39	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	8.4

See footnotes at end of table.

Table 5. **Statistics by Selected Industry Group and Industry for the State: 1987 and 1982—**

Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 150 employees or more. For meaning of abbreviations and symbols, see Introductory text. For explanation of terms, see appendices]

SIC code	Industry	1987												1982	
		E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
33	Primary metal industries	-	4	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.5
335	Nonferrous rolling and drawing	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3354	Aluminum extruded products	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
34	Fabricated metal products	E1	39	11	.9	18.9	.7	1.4	10.4	39.6	62.8	102.3	1.2	1.1	35.7
342	Cutlery, handtools, and hardware	-	3	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3429	Hardware, n.e.c.	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
344	Fabricated structural metal products	E1	19	6	.5	11.3	.3	.7	5.8	19.0	34.6	53.4	.7	.6	20.8
3441	Fabricated structural metal	-	3	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
349	Miscellaneous fabricated metal products	E1	9	3	.2	2.6	.1	.2	1.3	5.5	12.4	18.0	(D)	(NA)	(NA)
35	Industrial machinery and equipment	-	95	39	4.3	84.2	3.1	6.4	53.1	204.7	214.8	412.2	11.8	4.1	116.5
351	Engines and turbines	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3519	Internal combustion engines, n.e.c.	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
352	Farm and garden machinery	E1	20	7	.4	6.8	.3	.5	4.1	17.9	11.8	29.2	.6	.5	15.1
3523	Farm machinery and equipment	E1	20	7	.4	6.8	.3	.5	4.1	17.9	11.8	29.2	.6	CC	(D)
353	Construction and related machinery	-	16	10	1.3	27.5	.9	2.0	16.8	75.0	88.4	158.8	5.4	.9	30.2
3531	Construction machinery	-	12	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	19.5
3535	Conveyors and conveying equipment	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
354	Metalworking machinery	-	9	6	.5	11.5	.3	.6	5.8	24.3	14.3	39.3	.7	(NA)	(NA)
3548	Welding apparatus	-	1	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
355	Special industry machinery	E3	8	2	.2	2.4	.1	.2	1.7	4.8	3.6	8.4	.1	(NA)	(NA)
356	General industrial machinery	-	8	5	.6	12.4	.4	.9	7.5	40.7	21.8	60.4	.8	(NA)	(NA)
3564	Blowers and fans	-	2	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3566	Speed changers, drives, and gears	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
357	Computer and office equipment ..	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3577	Computer peripheral equipment, n.e.c.	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
358	Refrigeration and service machinery	-	4	2	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	BB	(D)
3585	Refrigeration and heating equipment	-	2	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
359	Industrial machinery, n.e.c.	E3	27	4	.2	4.8	.2	.4	3.8	9.7	4.9	14.6	1.1	(NA)	(NA)
3599	Industrial machinery, n.e.c.	E4	26	3	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
36	Electronic and other electric equipment	-	25	12	2.9	48.3	2.2	4.5	28.7	152.7	178.0	325.4	(D)	(NA)	(NA)
363	Household appliances	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3631	Household cooking equipment	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
366	Communications equipment	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3663	Radio and television communications equipment ..	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
367	Electronic components and accessories	-	12	7	1.5	27.6	1.1	2.5	15.3	70.4	70.6	140.6	(D)	(NA)	(NA)
3677	Electronic coils and transformers	-	3	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	CC	(D)
3679	Electronic components, n.e.c.	-	9	4	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
369	Miscellaneous electrical equipment and supplies	-	5	1	AA	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
37	Transportation equipment	E2	28	11	.8	16.2	.7	1.3	10.0	30.0	54.0	79.5	(D)	.5	14.7
371	Motor vehicles and equipment ..	E2	21	8	.7	14.2	.6	1.1	8.8	25.1	50.7	71.6	3.0	.3	11.0
3714	Motor vehicle parts and accessories	E5	8	3	.2	3.0	.1	.3	2.1	7.9	9.9	17.9	(D)	(NA)	(NA)
3715	Truck trailers	-	6	4	.5	10.1	.4	.8	5.8	9.6	34.8	44.7	(D)	AA	(D)
38	Instruments and related products	-	7	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
382	Measuring and controlling devices	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
3825	Instruments to measure electricity	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	AA	(D)
384	Medical instruments and supplies	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)
3842	Surgical appliances and supplies	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	EE	(D)

See footnotes at end of table.

Table 5. Statistics by Selected Industry Group and Industry for the State: 1987 and 1982—
Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 150 employees or more. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Text: For explanation of terms, see appendix.

SIC code	Industry	1987											1982		
		E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
39	Miscellaneous manufacturing industries -----	-	41	16	1.4	22.2	1.0	2.1	12.9	50.2	56.6	105.2	2.7	.7	21.6
391	Jewelry, silverware, and plated ware -----	-	11	8	.7	10.6	.6	1.2	7.7	29.1	37.7	65.3	.9	.3	11.9
3911	Jewelry, precious metal -----	-	11	8	.7	10.6	.6	1.2	7.7	29.1	37.7	65.3	.9	.3	11.9
399	Miscellaneous manufactures -----	E1	16	5	.5	8.9	.3	.7	4.0	16.4	14.4	30.8	(D)	.2	6.4
3993	Signs and advertising specialties -----	-	8	3	.4	7.1	.2	.5	2.9	12.0	12.4	24.5	(D)	.2	4.6
--	Auxiliaries -----	-	8	5	.3	8.5	-	-	-	-	-	-	-	.1	-

Note: For qualifications of data, see footnotes in table 4.

¹Statistics for some levels are withheld to avoid disclosing data for individual companies. However, for such disclosures with 150 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Statistical Areas: 1987

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MSA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Rapid City, SD MSA	-	102	32	3.5	68.2	2.4	5.0	37.4	161.0	237.4	398.2	6.2
20	Food and kindred products	E1	9	5	.5	10.3	.3	.7	5.9	23.2	86.1	110.5	(D)
24	Lumber and wood products	E1	15	3	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
249	Miscellaneous wood products	-	2	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2493	Reconstituted wood products	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	E2	19	3	.3	6.2	.1	.3	2.1	15.3	4.8	20.2	.3
36	Electronic and other electric equipment	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3679	Electronic components, n.e.c.	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
39	Miscellaneous manufacturing industries	-	13	7	.7	9.8	.6	1.1	7.3	28.0	36.2	62.6	.9
391	Jewelry, silverware, and plated ware	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3911	Jewelry, precious metal	-	9	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sioux Falls, SD MSA	-	138	50	8.9	164.8	6.3	11.5	100.4	463.8	1 063.2	1 518.2	20.7
20	Food and kindred products	-	19	12	4.2	82.0	3.0	5.1	52.6	223.5	810.2	1 032.9	(D)
201	Meat products	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2011	Meat packing plants	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
202	Dairy products	-	5	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
205	Bakery products	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2051	Bread, cake, and related products	-	2	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
24	Lumber and wood products	-	9	3	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
243	Millwork, plywood, and structural members	-	4	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products	-	4	4	.5	8.5	.4	.7	5.7	28.8	31.0	59.1	(D)
267	Miscellaneous converted paper products	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2673	Bags: plastics, laminated, and coated	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
27	Printing and publishing	-	32	5	.7	13.3	.4	.8	7.1	35.4	16.2	51.5	3.8
275	Commercial printing	-	22	4	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2759	Commercial printing, n.e.c.	-	6	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
34	Fabricated metal products	-	15	6	.6	11.6	.4	.9	6.7	28.1	37.0	65.2	.7
344	Fabricated structural metal products	E1	7	3	.3	6.4	.2	.4	3.3	10.3	17.8	28.0	.4
35	Industrial machinery and equipment	-	10	4	.3	6.4	.2	.4	3.6	16.2	17.4	33.0	1.6

See footnotes at end of table.

Table 6. Statistics by Selected Industry Group and Industry for Metropolitan Statistical Areas: 1987—Con.

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups and industries with 250 employees or more within MSA's, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
36	Sioux Falls, SD MSA—Con. Electronic and other electric equipment	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
363	Household appliances	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3631	Household cooking equipment	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
366	Communications equipment	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3663	Radio and television communications equipment	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
382	Measuring and controlling devices	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3825	Instruments to measure electricity	-	1	1	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: For qualifications of data, see footnotes in table 4.

¹Statistics for some levels are withheld to avoid disclosing data for individual companies. However, for such disclosures with 150 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 7. Statistics by Selected Industry Group and Industry for Selected Counties: 1987

[Includes operating manufacturing establishments and auxiliaries. Includes counties with 450 employees or more and industry groups and industries with 450 employees or more within counties, except those that would disclose data for individual companies. For definitions of CMSA's, MSA's, and PMSA's, information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Beadle County	E5	22	9	.6	12.9	.4	.9	8.6	32.9	190.4	225.1	1.9
	Brookings County	-	24	9	1.4	30.9	1.1	2.2	24.6	193.8	139.5	334.3	9.0
38	Instruments and related products	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
384	Medical instruments and supplies	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3842	Surgical appliances and supplies	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Brown County	-	33	11	2.0	40.6	1.4	3.0	25.9	123.5	106.3	228.2	4.5
22	Textile mill products	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
229	Miscellaneous textile goods	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2297	Nonwoven fabrics	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Industrial machinery and equipment	-	9	5	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
357	Computer and office equipment	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3577	Computer peripheral equipment, n.e.c.	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Codington County	E1	46	19	2.0	32.9	1.5	3.1	20.5	88.8	86.4	168.9	4.0
35	Industrial machinery and equipment	-	10	4	.7	14.3	.4	.9	8.2	25.0	32.4	56.3	1.1
	Davison County	-	27	12	1.1	19.3	.8	1.7	12.7	34.1	98.9	133.5	2.2
	Lake County	-	14	8	.6	10.8	.5	.9	6.5	33.8	30.3	63.7	.6
	Lawrence County	E5	34	7	.5	10.5	.4	.8	7.2	24.5	33.5	58.1	.9
	Minnehaha County (Coextensive with Sioux Falls, SD MSA; see table 6.)												
	Pennington County (Coextensive with Rapid City, SD MSA; see table 6.)	-	102	32	3.5	68.2	2.4	5.0	37.4	161.0	237.4	398.2	6.2
	Union County	-	17	10	.9	16.2	.7	1.3	10.8	33.4	42.7	75.5	2.8
	Yankton County	-	24	11	1.5	26.3	1.0	2.2	15.6	76.0	120.4	193.3	10.7
36	Electronic and other electric equipment	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: For qualifications of data, see footnotes in table 4.

¹Statistics for some levels are withheld to avoid disclosing data for individual companies. However, for such disclosures with 150 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 8. Statistics by Selected Industry Group and Industry for Selected Places: 1987

[Includes operating manufacturing establishments and auxiliaries. Includes places with 450 employees or more and industry groups and industries with 450 employees or more within places, except those that would disclose data for individual companies. For information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

SIC code	Geographic area and industry	E	All establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)	New capital expenditures (million dollars)
			Total (no.)	With 20 employees or more (no.)	Number ¹ (1,000)	Payroll (million dollars)	Number (1,000)	Hours (mil-lions)	Wages (million dollars)				
	Aberdeen	-	25	10	2.0	40.1	1.4	2.9	25.5	122.2	105.2	225.8	(D)
22	Textile mill products	-	2	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
229	Miscellaneous textile goods	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2297	Nonwoven fabrics	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Industrial machinery and equipment	-	6	4	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
357	Computer and office equipment	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3577	Computer peripheral equipment, n.e.c.	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Brookings	-	15	8	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
38	Instruments and related products	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
384	Medical instruments and supplies	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3842	Surgical appliances and supplies	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Huron	E5	17	8	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Madison	-	12	7	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mitchell	-	21	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rapid City	-	82	26	2.9	58.1	2.0	4.1	31.2	134.7	204.9	339.8	4.6
36	Electronic and other electric equipment	-	6	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories ..	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3679	Electronic components, n.e.c.	-	4	2	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sioux Falls ▲	-	112	43	8.5	156.7	6.1	11.0	96.4	444.7	1 026.9	1 462.7	19.8
20	Food and kindred products	-	17	11	4.1	80.7	3.0	5.1	52.0	218.7	796.1	1 014.1	(D)
201	Meat products	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2011	Meat packing plants	-	1	1	FF	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
26	Paper and allied products	-	4	4	.5	8.5	.4	.7	5.7	28.8	31.0	59.1	(D)
27	Printing and publishing	-	27	5	.7	12.6	.4	.8	6.8	34.0	15.6	49.5	3.7
34	Fabricated metal products	-	10	4	.5	9.9	.4	.8	5.8	22.7	30.2	52.7	(D)
36	Electronic and other electric equipment	-	4	3	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
363	Household appliances	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3631	Household cooking equipment	-	1	1	CC	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Watertown	E1	43	19	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
35	Industrial machinery and equipment	-	10	4	.7	14.3	.4	.9	8.2	25.0	32.4	56.3	1.1
	Yankton	-	20	10	EE	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
36	Electronic and other electric equipment	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
367	Electronic components and accessories ..	-	3	2	BB	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: For qualifications of data, see footnotes in table 4.

¹Statistics for some levels are withheld to avoid disclosing data for individual companies. However, for such disclosures with 150 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: AA—150 to 249 employees; BB—250 to 499 employees; CC—500 to 999 employees; EE—1,000 to 2,499 employees; FF—2,500 employees or more. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 9. Distribution of Establishments by Employment Size and Major Group for the State and Counties: 1987

[Major groups descriptions are: 20—food and kindred products; 21—tobacco products; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For information on geographic areas followed by A, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]																						
Geographic area and employee-size class ¹	All establishments	Establishments in major group—																			Auxiliaries	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38		39
South Dakota	764	94	-	3	26	65	13	8	190	23	-	27	1	67	4	39	95	25	28	7	41	8
1 to 4 employees.....	304	28	-	2	7	32	3	2	90	9	-	8	-	34	1	14	37	7	10	3	15	2
5 to 9 employees.....	122	11	-	3	3	14	3	2	40	7	-	4	1	17	-	8	5	2	1	-	5	1
10 to 19 employees.....	107	10	-	-	2	5	5	2	33	6	-	3	-	6	-	8	14	4	8	-	5	-
20 to 49 employees.....	113	17	-	-	8	9	2	2	19	3	-	8	-	7	2	5	16	3	6	1	6	2
50 to 99 employees.....	59	16	-	-	5	2	2	1	3	1	-	2	-	2	-	4	10	2	3	-	7	2
100 to 249 employees.....	39	8	-	-	1	2	-	1	5	-	-	1	-	1	-	2	9	3	1	1	3	1
250 to 499 employees.....	14	3	-	-	-	1	-	1	-	-	-	1	-	-	1	-	1	2	1	1	-	-
500 to 999 employees.....	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,500 employees or more.....	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aurora	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	3	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Beadle	22	8	-	-	-	-	-	-	5	2	-	-	-	1	-	1	3	1	-	1	-	-
1 to 19 employees.....	13	3	-	-	-	-	-	-	4	2	-	-	-	1	-	1	2	-	-	-	-	-
20 to 99 employees.....	7	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
100 to 249 employees.....	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bennett	3	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	2	1	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
20 to 99 employees.....	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 to 249 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bon Homme	6	-	-	-	1	-	-	-	2	-	-	1	-	1	-	-	-	-	-	-	1	-
1 to 19 employees.....	3	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
20 to 99 employees.....	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
100 to 249 employees.....	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Brookings	24	1	-	-	-	-	1	-	6	3	-	2	-	2	-	1	3	2	-	1	2	-
1 to 19 employees.....	15	-	-	-	-	-	-	-	5	3	-	-	-	2	-	-	2	2	-	-	1	-
20 to 99 employees.....	6	1	-	-	-	-	1	-	1	-	-	2	-	-	-	1	1	-	-	-	-	-
100 to 249 employees.....	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250 employees or more.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brown	33	3	-	2	1	1	-	-	11	-	-	-	-	2	-	1	9	-	2	1	-	-
1 to 19 employees.....	22	2	-	1	1	1	-	-	7	-	-	-	-	2	-	1	4	-	2	1	-	-
20 to 99 employees.....	6	1	-	-	-	-	-	-	3	-	-	-	-	-	-	-	2	-	-	-	-	-
100 to 249 employees.....	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-
250 employees or more.....	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
Brule	6	1	-	-	1	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-
1 to 19 employees.....	5	1	-	-	1	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
20 to 99 employees.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Buffalo	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1 to 19 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Butte	9	-	-	-	-	-	-	-	2	-	-	-	-	1	-	2	1	-	-	-	1	-
1 to 19 employees.....	9	-	-	-	-	2	-	-	2	-	-	-	-	1	-	2	1	-	-	-	1	-
Campbell	4	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
1 to 19 employees.....	4	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	2	-	-	-	-	-
Charles Mix	7	1	-	-	-	-	-	1	3	-	-	-	-	1	-	-	2	-	1	-	-	-
1 to 19 employees.....	6	1	-	-	-	-	-	1	3	-	-	-	-	1	-	-	-	-	-	-	-	-
20 to 99 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clerk	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
100 to 249 employees.....	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clay	12	1	-	-	-	-	-	-	2	1	-	2	-	1	-	-	3	1	-	-	1	-
1 to 19 employees.....	11	1	-	-	-	-	-	-	2	1	-	2	-	1	-	-	2	-	-	-	1	-
20 to 99 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Group for the State and Counties: 1987—Con.

[Major groups descriptions are: 20—food and kindred products; 21—tobacco products; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For information on geographic areas followed by A, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

Geographic area and employee-size class¹	All establishments	Establishments in major group—																			Auxiliaries
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
South Dakota—Con.																					
Codington.....	46	6	-	-	2	4	1	2	4	1	-	3	-	2	1	3	10	2	4	-	1
1 to 19 employees.....	27	3	-	-	3	1	1	2	3	1	-	-	-	2	1	1	6	1	3	-	-
20 to 99 employees.....	14	2	-	2	-	-	-	-	1	-	-	2	-	-	2	-	2	-	-	-	1
100 to 249 employees.....	3	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	-
250 employees or more.....	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corson.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Custer.....	8	-	-	-	-	6	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
1 to 19 employees.....	7	-	-	-	-	5	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-
20 to 99 employees.....	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Davison.....	27	6	-	-	1	-	-	-	5	1	-	1	-	3	1	-	2	2	3	1	1
1 to 19 employees.....	15	3	-	-	1	-	-	-	3	1	-	1	-	3	1	-	1	1	1	1	1
20 to 99 employees.....	9	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	-
100 to 249 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 employees or more.....	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
Day.....	11	1	-	-	3	-	-	-	2	-	-	1	-	-	-	-	4	-	-	-	-
1 to 19 employees.....	7	1	-	-	2	-	-	-	2	-	-	1	-	-	-	-	3	-	-	-	-
20 to 99 employees.....	3	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
100 to 249 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deuel.....	6	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	1	-	-	-	2
1 to 19 employees.....	6	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	1	-	-	-	2
Dewey.....	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Douglas.....	4	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-
1 to 19 employees.....	4	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-
Edmunds.....	6	2	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1
1 to 19 employees.....	6	2	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	1
Fall River.....	7	-	-	-	-	1	-	-	3	-	-	-	-	2	-	-	-	-	-	-	1
1 to 19 employees.....	6	-	-	-	-	1	-	-	3	-	-	-	-	2	-	-	-	-	-	-	1
20 to 99 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Faulk.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
1 to 19 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Grant.....	12	3	-	-	-	-	-	-	4	-	-	-	-	3	-	2	-	-	-	-	-
1 to 19 employees.....	7	1	-	-	-	-	-	-	3	-	-	-	-	1	-	2	-	-	-	-	-
20 to 99 employees.....	4	1	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-
100 to 249 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gregory.....	9	1	-	-	-	1	-	-	3	-	-	-	-	2	-	-	1	-	-	-	1
1 to 19 employees.....	8	1	-	-	-	1	-	-	3	-	-	-	-	2	-	-	1	-	-	-	1
20 to 99 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haakon.....	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-
1 to 19 employees.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-
20 to 99 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hamlin.....	5	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-
1 to 19 employees.....	5	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-
Hand.....	4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-
1 to 19 employees.....	3	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
20 to 99 employees.....	1	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Group for the State and Counties: 1987—Con.

[Major groups descriptions are: 20—food and kindred products; 21—tobacco products; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For information on geographic areas followed by A, general geographic information, and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text]

Geographic area and employee-size class¹	All estab- lishments	Establishments in major group—																			Auxil- iaries	
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38		39
South Dakota—Con.																						
Henson.....	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Herdling.....	2	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	2	-	-	-	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Hughes.....	8	-	-	-	-	-	-	-	4	1	-	-	1	-	-	-	1	1	-	-	-	-
1 to 19 employees.....	5	-	-	-	-	-	-	-	2	1	-	-	1	-	-	-	1	1	-	-	-	-
20 to 99 employees.....	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Hutchinson.....	18	5	-	-	1	-	-	-	4	2	-	-	1	-	-	-	4	-	-	-	1	-
1 to 19 employees.....	13	4	-	-	-	-	-	-	4	1	-	-	1	-	-	-	2	-	-	-	1	-
20 to 99 employees.....	5	1	-	-	1	-	-	-	1	1	-	-	-	-	-	-	2	-	-	-	-	-
Hyde.....	2	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	2	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-
Jackson.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
1 to 19 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Jerauld.....	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Jones.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Kingsbury.....	9	1	-	-	1	-	-	-	3	-	-	-	-	-	-	2	-	-	-	-	1	-
1 to 19 employees.....	7	1	-	-	-	-	-	-	3	-	-	-	-	-	-	2	-	-	-	-	1	-
20 to 99 employees.....	2	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Lake.....	14	1	-	-	1	1	-	-	1	1	-	-	2	-	-	-	5	-	2	-	-	-
1 to 19 employees.....	6	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	2	-	1	-	-	-
20 to 99 employees.....	6	1	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-
100 to 249 employees.....	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-
Lawrence.....	34	3	-	-	-	14	-	-	6	-	-	-	-	3	-	-	4	-	-	1	3	-
1 to 19 employees.....	27	1	-	-	-	11	-	-	5	-	-	-	-	3	-	-	4	-	-	1	2	-
20 to 99 employees.....	6	2	-	-	-	2	-	-	1	-	-	-	-	-	-	-	4	-	-	-	1	-
100 to 249 employees.....	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lincoln.....	18	1	-	-	2	1	1	-	2	1	-	4	-	-	-	2	4	-	-	-	-	-
1 to 19 employees.....	14	1	-	-	2	1	1	-	2	1	-	3	-	-	-	2	1	-	-	-	-	-
20 to 99 employees.....	3	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-
100 to 249 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
McCook.....	9	1	-	-	1	-	-	-	2	-	-	1	-	2	-	-	1	1	-	-	-	-
1 to 19 employees.....	7	1	-	-	-	-	-	-	2	-	-	1	-	2	-	-	-	1	-	-	-	-
20 to 99 employees.....	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 to 249 employees.....	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
McPherson.....	5	1	-	-	1	-	-	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-
1 to 19 employees.....	5	1	-	-	1	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-
Marshall.....	10	2	-	-	2	1	-	-	2	-	-	-	-	1	-	-	2	-	-	-	-	-
1 to 19 employees.....	5	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	1	-	-	-	-	-
20 to 99 employees.....	5	1	-	-	2	1	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-
Meade.....	13	1	-	-	-	4	-	-	3	1	-	-	-	3	-	-	1	-	-	-	-	-
1 to 19 employees.....	9	-	-	-	-	3	-	-	1	1	-	-	-	3	-	-	-	-	-	-	-	-
20 to 99 employees.....	4	1	-	-	-	1	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Group for the State and Counties: 1987—Con.

Major groups descriptions are: 20—food and kindred products; 21—tobacco products; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendices. For meaning of abbreviations and symbols, see introductory text.

Geographic area and employee-size class¹	All establishments	Establishments in major group—																			Auxiliaries
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	
South Dakota—Con.																					
Miner	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-
1 to 19 employees	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-
Minnehaha	138	19	-	-	2	9	5	4	32	4	-	7	-	8	1	15	10	4	7	1	7
1 to 19 employees	88	7	-	-	2	6	5	-	27	4	-	4	-	6	1	9	6	1	4	-	6
20 to 99 employees	34	9	-	-	2	2	1	2	3	-	-	3	-	1	1	4	3	1	3	-	1
100 to 249 employees	10	1	-	-	1	1	-	1	3	-	-	-	-	1	-	2	1	-	2	-	-
250 employees or more	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-
Moody	4	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-
1 to 19 employees	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-
100 to 249 employees	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Pennington	102	9	-	-	1	15	5	1	19	3	-	2	-	11	-	5	4	6	4	-	13
1 to 19 employees	70	4	-	-	1	12	4	1	16	3	-	2	-	5	-	3	4	4	4	-	6
20 to 99 employees	25	4	-	-	1	2	1	-	2	-	-	-	-	6	-	2	-	1	-	-	2
100 to 249 employees	5	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
250 employees or more	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Perkins	5	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	1
1 to 19 employees	4	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	1	-	-	-	-
20 to 99 employees	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Potter	6	3	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-
1 to 19 employees	5	2	-	-	-	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-
20 to 99 employees	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roberts	6	-	-	-	2	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-
1 to 19 employees	5	-	-	-	1	-	-	-	1	-	-	-	-	1	-	1	1	-	-	-	-
20 to 99 employees	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sanborn	4	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	-
1 to 19 employees	3	1	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
100 to 249 employees	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Shannon	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1 to 19 employees	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Spink	5	2	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-
1 to 19 employees	5	2	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	-
Sully	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
1 to 19 employees	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Todd	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
1 to 19 employees	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Tripp	5	-	-	-	-	-	-	-	3	-	-	1	-	1	-	-	-	-	-	-	-
1 to 19 employees	5	-	-	-	-	-	-	-	3	-	-	1	-	1	-	-	-	-	-	-	-
Turner	9	-	-	-	-	1	-	-	6	1	-	-	-	-	-	-	1	-	-	-	-
1 to 19 employees	9	-	-	-	-	1	-	-	6	1	-	-	-	-	-	-	1	-	-	-	-
Union	17	2	-	-	2	1	-	-	3	-	-	1	-	-	-	1	4	2	1	-	-
1 to 19 employees	7	-	-	1	1	1	-	-	3	-	-	-	-	-	-	1	-	1	-	-	-
20 to 99 employees	8	1	-	1	-	-	-	-	-	-	-	1	-	-	-	-	4	1	-	-	-
100 to 249 employees	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
250 employees or more	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walworth	3	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	1
1 to 19 employees	2	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
20 to 99 employees	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 9. Distribution of Establishments by Employment Size and Major Group for the State and Counties: 1987—Con.

[Major groups descriptions are: 20—food and kindred products; 21—tobacco products; 22—textile mill products; 23—apparel and other textile products; 24—lumber and wood products; 25—furniture and fixtures; 26—paper and allied products; 27—printing and publishing; 28—chemicals and allied products; 29—petroleum and coal products; 30—rubber and miscellaneous plastics products; 31—leather and leather products; 32—stone, clay, and glass products; 33—primary metal industries; 34—fabricated metal products; 35—industrial machinery and equipment; 36—electronic and other electric equipment; 37—transportation equipment; 38—instruments and related products; 39—miscellaneous manufacturing industries. For information on geographic areas followed by ▲, general geographic information, and explanation of terms, see appendixes. For meaning of abbreviations and symbols, see introductory text]

Geographic area and employee-size class ¹	All estab- lishments	Establishments in major group—																			Auxil- iaries
		20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
South Dakota—Con.	24	4	-	-	-	2	-	-	7	-	-	-	-	-	1	-	5	3	2	-	-
Yankton	13	2	-	-	-	2	-	-	6	-	-	-	-	-	-	-	1	1	1	-	-
1 to 19 employees	6	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
20 to 99 employees	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
100 to 249 employees	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
250 employees or more																					

Note: Data on number of establishments by employment-size class by four-digit SIC industry for States, counties, places, and ZIP Codes are presented in Location of Manufacturing Plants subject report. This report is available only on computer tape (see introductory text).

¹Only those counties and size classes that include data for manufacturing establishments are shown. Auxiliaries are included in figures shown.



APPENDIX A.

Explanation of Terms

This appendix is in two sections. Section 1 includes items requested of all establishments mailed census of manufactures forms including annual survey of manufactures (ASM) forms. Note that this section also includes several items (number of establishments and companies, value added, classes of products, and specialization and coverage ratios) not included on the report forms but derived from information collected on the forms. Section 2 covers supplementary items requested only from establishments included in the ASM sample. Results of the supplementary ASM inquiries are included in table 3 of this report.

SECTION 1. ITEMS COLLECTED OR DERIVED BASED ON ALL CENSUS OF MANUFACTURES (INCLUDING ASM) REPORT FORMS

Number of establishments and companies—As discussed in the Introduction, a separate report was required for each manufacturing establishment (plant) with one employee or more. An establishment is defined as a single physical location where manufacturing is performed. A company, on the other hand, is defined as a business organization consisting of one establishment or more under common ownership or control.

If the company operated at different physical locations, even if the individual locations were producing the same line of goods, a separate report was requested for each location. If the company operated in two or more distinct lines of manufacturing at the same location, a separate report was requested for each activity.

An establishment not in operation for any portion of the year was requested to return the report form with the proper notation in the "Operational Status" section of the form. In addition, the establishment was requested to report data on any employees, capital expenditures, inventories, or shipments from inventories during the year.

In this report, data are shown for establishments in operation at any time during the year. A comparison with the number of establishments in operation at the end of the year will be provided in the Introduction of the General Summary subject report.

Employment and related items—The report forms requested separate information on production workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees—This item includes all full-time and part-time employees on the payrolls of operating manufacturing establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods.

Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded. The "all employees" number is the average number of production workers plus the number of other employees in mid-March. The number of production workers is the average for the payroll periods including the 12th of March, May, August, and November.

Production workers—This item includes workers (up through the line-supervisor level) engaged in fabricating, processing, assembling, inspecting, receiving, storing, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial and guard services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Employees above the working-supervisor level are excluded from this item.

All other employees—This item covers nonproduction employees of the manufacturing establishment including those engaged in factory supervision above the line-supervisor level. It includes sales (including driver salespersons), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office function, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical employees. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

In addition to reports sent to operating manufacturing establishments, information on employment during the payroll period which included March 12 and annual payrolls also was requested of auxiliary units (e.g., administrative offices, warehouses, and research and development laboratories) of multiestablishment companies. However, these figures are not included in the totals for individual

industries shown in this report. They are included in the general summary and geographic area reports as a separate category.

Payroll—This item includes the gross earnings of all employees on the payroll of operating manufacturing establishments paid in the calendar year 1987. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The census definition of payrolls is identical to that recommended to all Federal statistical agencies by the Office of Management and Budget. It should be noted that this definition does not include employers' Social Security contributions or other nonpayroll labor costs, such as employees' pension plans, group insurance premiums, and workers' compensation.

The ASM provides estimates of employers' supplemental labor costs, both those required by Federal and State laws and those incurred voluntarily or as part of collective bargaining agreements. (Supplemental labor costs are explained later in this appendix.)

As in the case of employment figures, the payrolls of separate auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups, but are included in the data for the geographic area (State, MSA, county, place) as a whole.

Production-worker hours—This item covers hours worked or paid for at the plant, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave.

Cost of materials—This term refers to direct charges actually paid or payable for items consumed or put into production during the year, including freight charges and other direct charges incurred by the establishment in acquiring these materials. It includes the cost of materials or fuel consumed, whether purchased by the individual establishment from other companies, transferred to it from other establishments of the same company, or withdrawn from inventory during the year.

The important components of this cost item are (1) all raw materials, semifinished goods, parts, containers, scrap, and supplies put into production or used as operating supplies and for repair and maintenance during the year, (2) electric energy purchased, (3) fuels consumed for heat, power, or the generation of electricity, (4) work done by

others on materials or parts furnished by manufacturing establishments (contract work), and (5) products bought and resold in the same condition. (See discussion of duplication of data below.)

Value of shipments—This item covers the received or receivable net selling values, f.o.b. plant (exclusive of freight and taxes), of all products shipped, both primary and secondary, as well as all miscellaneous receipts, such as receipts for contract work performed for others, installation and repair, sales of scrap, and sales of products bought and resold without further processing. Included are all items made by or for the establishments from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. The net selling value of products made in one plant on a contract basis from materials owned by another was reported by the plant providing the materials.

In the case of multiunit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company at full economic or commercial value, including not only the direct cost of production but also a reasonable proportion of "all other costs" (including company overhead) and profit. (See discussion of duplication of data below.)

Duplication in cost of materials and value of shipments—The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. This duplication results, in part, from the addition of related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the food group and the addition of pulp mills to paper mills in the paper and allied products group of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication (the value of finished manufactures) tends to approximate two-thirds of the total value of products reported in the annual survey.

Duplication of products within individual industries is significant within a number of industry groups, e.g., machinery and transportation industries. These industries frequently include complete machinery and their parts. In this case, the parts made for original equipment are materials consumed for assembly plants in the same industry.

Even when no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs of value of shipments, both among industries and within the same industry.

Before 1962, cost of materials and value of shipments were not published for some industries which included considerable duplication. Since then, these data have

been published for all industries at the United States level and beginning in 1964, for all geographic levels.

Value added by manufacture—This measure of manufacturing activity is derived by subtracting the cost of materials, supplies, containers, fuel, purchased electricity, and contract work from the value of shipments (products manufactured plus receipts for services rendered). The result of this calculation is adjusted by the addition of value added by merchandising operations (i.e., the difference between the sales value and the cost of merchandise sold without further manufacture, processing, or assembly) plus the net change in finished goods and work-in-process between the beginning- and end-of-year inventories.

“Value added” avoids the duplication in the figure for value of shipments that results from the use of products of some establishments as materials by others. Value added is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

New and used capital expenditures—For establishments in operation and any known plants under construction, manufacturers were asked to report their new expenditures for (1) permanent additions and major alterations to manufacturing establishments, and (2) machinery and equipment used for replacement and additions to plant capacity if they were of the type for which depreciation accounts were ordinarily maintained.

The totals for new expenditures include expenditures leased from nonmanufacturing concerns through capital leases. New facilities owned by the Federal Government but operated under contract by private companies, and plant and equipment furnished to the manufacturer by communities and nonprofit organizations are excluded. Also excluded are expenditures for used plant and equipment (although reported in the census), expenditures for land, and cost of maintenance and repairs charged as current operating expenses.

Manufacturers also were requested to report the value of all used buildings and equipment purchased during the year at the purchase price. For any equipment or structure transferred for the use of the reporting establishment by the parent company or one of its subsidiaries, the value at

which it was transferred to the establishment was to be reported. Furthermore, if the establishment changed ownership during the year, the cost of the fixed assets (building and equipment) was to be reported under used capital expenditures.

Total expenditures for used plant and equipment is a universe figure; it is collected on all census forms. However, the breakdown of this figure between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. The data for total new capital expenditures, new building expenditures, and new machinery expenditures, as well as the data for total used expenditures, are shown in table 3b.

End-of-year inventories—Respondents were asked to report their 1986 and 1987 end-of-year inventories at cost or market. Effective with the 1982 Economic Censuses, this change to a uniform instruction for reporting inventories was introduced for all sector reports. Prior to 1982, respondents were permitted to value inventories using any generally accepted accounting method (FIFO, LIFO, market, to name a few). In 1982, LIFO users were asked to first report inventory values prior to the LIFO adjustment and then to report the LIFO reserve and the LIFO value after adjustment for the reserve.

Because of this change in reporting instructions, the 1982 through 1987 data for inventories and value added by manufacture included in the tables of this report are not comparable to the prior-year data shown in table 1a of this report and in historical census of manufactures and annual survey of manufactures publications.

In using inventory data by stage of fabrication for “all industries” and at the two-digit industry level, it should be noted that an item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished-product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and “all manufacturing”, which are aggregates of figures reported by establishments in specified industries.

SECTION 2. ITEMS COLLECTED ONLY ON ASM REPORT FORMS

The following items were collected only from establishments included in the ASM sample:

1. **Supplemental labor costs**—Supplemental labor costs are divided into legally required expenditures and payments for voluntary programs. The legally required portion consists primarily of Federal old age and survivors’ insurance, unemployment compensation, and workers’ compensation. Payments for voluntary programs include all programs not specifically required by legislation whether they

were employer initiated or the result of collective bargaining. They include the employer portion of such plans as insurance premiums, premiums for supplemental accident and sickness insurance, pension plans, supplemental unemployment compensation, welfare plans, stock purchase plans on which the employer payment is not subject to withholding tax, and deferred profit-sharing plans. They exclude such items as company-operated cafeterias, in-plant medical services, free parking

lots, discounts on employee purchases, and uniforms and work clothing for employees. While the excluded items do benefit employees and all or part of their cost generally is similar to the items covered in the ASM labor costs statistics, accounting records generally do not provide reliable figures on net employee benefits of these types.

2. **Retirements of depreciable assets**—Included in this item is the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987. When a complete operation or establishment changed ownership, the respondent was instructed to report the value of the assets sold at the original cost as recorded in the books of the seller. The respondent also was requested to report retirements of equipment or structures owned by a parent company that the establishment was using as if it were a tenant.
3. **Depreciation charges for fixed assets**—This item includes depreciation and amortization charged during the year against assets. Depreciation charged against fixed assets acquired since the beginning of the year and against assets sold or retired during the year are components of this category. Respondents were requested to make certain that they did not report accumulated depreciation.
4. **Rental payments**—Total rental payments is collected on all census forms. However, the breakdown between rental payments for buildings and other structures and rental payments for machinery and equipment is collected only on the ASM forms. This item includes rental payments for the use of all items for which depreciation reserves would be maintained if they were owned by the establishment, e.g., structures and buildings, and production, office, and transportation equipment. Excluded are royalties and other payments for the use of intangibles and depletable assets, and land rents where separable.

When an establishment of a multiestablishment company was charged rent by another part of the same company for the use of assets owned by the company, it was instructed to exclude that cost from rental payments. However, the book value (original cost) of these company-owned assets was to be reported as assets of the establishment at the end of the year.

If there were assets at an establishment rented from another company and the rents were paid centrally by the head office of the establishment, the company was instructed to report these rental payments as if they were paid directly by the establishment.

5. **Depreciable assets**—Total value of gross depreciable assets is collected on all census forms. However, the detail for depreciable assets is collected only on the ASM forms. The data encompass

all fixed depreciable assets on the books of establishments at the beginning and end of the year. The values shown (book value) represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation). Included are all buildings, structures, machinery, and equipment (production, office, and transportation equipment) for which depreciation reserves are maintained. Excluded are nondepreciable capital assets, including inventories and intangible assets, such as timber and mineral rights.

The definition of fixed depreciable assets is consistent with the definition of capital expenditures. For example, expenditures include actual capital outlays during the year, rather than the final value of equipment put in place and buildings completed during the year. Accordingly, the value of assets at the end of the year includes the value of construction in progress. In addition, respondents were requested to make certain that assets at the beginning of the year plus new and used capital expenditures, less retirements, equalled assets at the end of the year.

6. **New and used capital expenditures**—The data for total new capital expenditures, new building expenditures, new machinery expenditures, and total used capital expenditures are collected on all census forms. However, the breakdown between expenditures for used buildings and other structures and expenditures for used machinery and equipment is collected only on the ASM form. (See further explanation on capital expenditures in section 1.)
7. **Quantity of electric energy consumed for heat and power**—Data on the cost of purchased electric energy were collected on all census forms. However, data on the quantity of purchased electric energy were collected only on the ASM forms. In addition, information was collected on the quantity of electric energy generated by the establishment and the quantity of electric energy sold or transferred to other plants of the same company.

The same approach was utilized to produce these statistics. For items 1 through 6, data were estimated (imputed) for all non-ASM establishments using the available data in the establishment record and industry-based parameters. The statistics were then generated by simply tabulating all census records including the imputed value for non-ASM establishments and the unweighted value for ASM establishments. Separate imputation rates were developed and are shown in the table. For quantity of purchased electricity for heat and power (item 7), a similar procedure was used; however, the imputation parameters were geographically-based instead of industry-based. For quantities of generated less sold electricity, no imputation was performed for

non-ASM establishments. The estimates for these items are simply tabulations of unweighted ASM values.

Since the published statistics for these items were developed from the complete census universe and not just the ASM establishments, there are no sampling variances associated with these statistics. However, there is an

unknown level of bias for each of the items due to the imputation of the non-ASM establishments. This bias is felt to be small due to the strong correlation between the items being imputed and the collected items that were used to generate the impute values.



APPENDIX B.

Annual Survey of Manufactures (ASM) Sampling and Estimating Methodologies

DESCRIPTION OF SURVEY SAMPLE

The Annual Survey of Manufactures (ASM) contains two components. The mail portion of the survey is a probability sample of about 56,000 manufacturing establishments selected from a total of about 220,000 establishments. These 220,000 establishments represent all manufacturing establishments of multiunit companies and all single establishment companies mailed schedules in the 1982 Census of Manufactures. This mail portion is supplemented annually by a Social Security Administration list of new manufacturing establishments opened after 1982 and a list of new multiunit manufacturing establishments identified from the Census Bureau's Company Organization Survey.

The 1984 through 1988 ASM sample differs slightly from the previous sample. For the current panel, all establishments of companies with 1982 shipments in manufacturing in excess of \$500 million were included in the survey panel with certainty. There are approximately 500 such companies collectively accounting for approximately 18,000 establishments. For the remaining portion of the mail survey, the establishment was defined as the sampling unit. For this portion, all establishments with 250 employees or more and establishments with a very large value of shipments also were included in the survey panel with certainty. A total of 12,100 establishments were selected from this portion of the universe with certainty. Therefore, of the 56,000 manufacturing establishments included in the ASM panel, approximately 31,000 are selected with certainty. These certainty establishments collectively account for approximately 80 percent of the total value of shipments in the 1982 census.

Smaller establishments in the remaining portion of the mail survey were sampled with probabilities ranging from 0.999 to 0.005 in accordance with mathematical theory for optimum allocation of a sample. The probabilities of selection assigned to the smaller establishments were proportional to measures of size determined for each establishment. The measures of size depend directly upon each establishment's 1982 product class values and the historic variability of the year-to-year shipments of each product class. Product classes displaying more volatile year-to-year change in shipments at the establishment level were sampled at a heavier rate.

This method of assigning measures of size was used in order to maximize the precision (that is, minimize the variance of estimates of the year-to-year change) in the value of product class shipments. Implicitly, it also gave weight differences in employment, value added, and other

general statistics, since these are highly correlated with value of shipments. Individual sample selection probabilities were obtained by multiplying each establishment's final measure of size by an overall sampling fraction coefficient calculated to yield a total expected sample size.

The sample selection procedure gave each establishment in the sampling frame an independent chance of selection. This method of independent selection permits the rotation of small establishments out of a given sample panel without introducing a bias into the survey estimates.

The nonmail portion of the survey includes all single-establishment companies that were tabulated as administrative records in the 1982 Census of Manufactures. Although this portion contained approximately 130,000 establishments, it accounted for less than 2 percent of the estimate for total value of shipments at the total manufacturing level. This portion was not sampled; rather, the data for every establishment in this group were estimated based on selected information obtained annually from the administrative records of the Internal Revenue Service and the Social Security Administration. This administrative-record information, which includes payroll, total employment, industry classification, and physical location of the establishment, was obtained under conditions which safeguard the confidentiality of both tax and census records. Estimates of data other than payroll and employment for these small establishments were developed from industry averages.

The corresponding estimates for the mail and nonmail establishments were added together, along with the base-year differences, as defined in the Description of Estimating Procedure section, to produce the figures shown in this publication.

DESCRIPTION OF ESTIMATING PROCEDURES

Most of the ASM estimates for the years 1983-1986 were computed using a difference estimation procedure. For each item, a base-year difference was developed. This base-year difference is equal to the difference between the 1982 census published number for an item total and the linear ASM estimate of the total for 1982. The ASM linear estimate was obtained by multiplying each sample establishment's data by its sample weight (the reciprocal of its probability of selection) and summing the weighted values.

These base-year differences were then added to the corresponding current-year linear estimates, which include the sum of the estimates for the mail and nonmail establishments, to produce the estimates for the years 1983-1986. Estimates developed by this procedure usually are far more reliable than comparable linear estimates developed from the current sample data alone.

QUALIFICATIONS OF THE DATA

The estimates developed from the sample are apt to differ somewhat from the results of a survey covering all companies in the sampled lists but otherwise conducted under essentially the same conditions as the actual sample survey. The estimates of the magnitude of the sampling errors (the differences between the estimates obtained and the results theoretically obtained from a comparable, complete-coverage survey) are provided by the standard errors of the estimates.

The particular sample selected for the ASM is one of a large number of similar probability samples that, by chance, might have been selected under the same specifications. Each of the possible samples would yield somewhat different sets of results, and the standard errors are measures of the variation of all the possible sample estimates around the theoretical, comparable, complete-coverage values.

Estimates of the standard errors have been computed from the sample data for selected statistics in this report. They are presented in the form of relative standard errors (the standard errors divided by the estimated values to which they refer).

In conjunction with its associated estimate, the relative standard error may be used to define confidence intervals (ranges that would include the comparable, complete-coverage value for specified percentages of all the possible samples).

The complete coverage value would be included in the range:

1. From one standard error below to one standard error above the derived estimate for about two-thirds of all possible samples.
2. From two standard errors below to two standard errors above the derived estimate for about 19 of 20 of all possible samples.
3. From three standard errors below to three standard errors above the derived estimate for nearly all samples.

An inference that the comparable, complete-survey result would be within the indicated ranges would be correct in approximately the relative frequencies shown. Those proportions, therefore, may be interpreted as defining the confidence that the estimates from a particular sample would differ from complete-coverage results by as much as one, two, or three standard errors, respectively.

For example, suppose an estimated total is shown as 50,000 with an associated relative standard error of 2 percent, that is, a standard error of 1,000 (2 percent of 50,000). There is approximately 67 percent confidence that the interval 49,000 to 51,000 includes the complete-coverage total, about 95 percent confidence that the interval 48,000 to 52,000 includes the complete-coverage total and almost certain confidence that the interval 47,000 to 53,000 includes the complete coverage total.

In addition to the sample errors, the estimates are subject to various response and operational errors: errors of collection, reporting, coding, transcription, imputation for nonresponse, etc. These operational errors also would occur if a complete canvass were to be conducted under the same conditions as the survey. Explicit measures of their effects generally are not available. However, it is believed that most of the important operational errors were detected and corrected in the course of the Bureau's review of the data for reasonableness and consistency. The small operational errors usually remain. To some extent, they are compensating in the aggregated totals shown. When important operational errors were detected too late to correct the estimates, the data were suppressed or were specifically qualified in the tables.

As derived, the estimated standard errors included part of the effect of the operational errors. The total errors, which depend upon the joint effect of the sampling and operational errors, are usually of the order of size indicated by the standard error, or only moderately higher. However, for particular estimates, the total error may considerably exceed the standard errors shown.

The concept of complete coverage under the conditions prevailing for the ASM is not identical to the complete coverage of the census of manufactures, as the censuses have been conducted. Nearly all types of operational errors that affect the ASM also occur in the censuses. The ASM and the censuses, are conducted under quite different conditions, and operational errors can be better controlled in the ASM than in the censuses. As a result, for many of the census figures, the errors are of the same order of size as the total errors of the corresponding annual survey estimates. The differences between the census and ASM operating conditions also disturb, to some degree, the comparability of the ASM and census data.

Any figures shown in the tables in this publication having an associated standard error exceeding 15 percent may be of limited reliability. However, the figure may be combined with higher-level totals, creating a broader aggregate, which then may be of acceptable reliability.

APPENDIX C.

Metropolitan Statistical Areas

[Titles and definitions shown for MSA's, PMSA's, and CMSA's are those established by the Office of Management and Budget, as of June 30, 1987]

SOUTH DAKOTA

Rapid City, SD MSA

Pennington County, SD

Sioux Falls, SD MSA

Minnehaha County, SD

APPENDIX D. Geographic Notes

SOUTH DAKOTA

Sioux Falls is in Lincoln and Minnehaha Counties.

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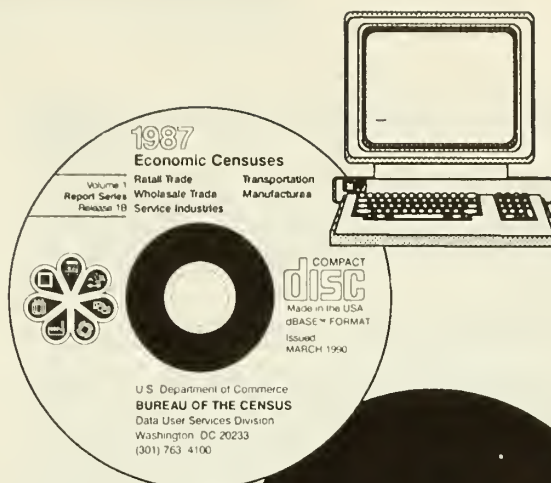
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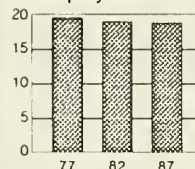
Service Industry Growth, 1982-1987: United States (Percent)

	Receipts	Employment
Total	76.2	41.3
Hotels, etc.	56.1	28.0
Personal services	52.9	24.6
Business services	102.9	66.6
Auto repair	67.5	49.9
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Amusements		

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1987 CENSUS OF MANUFACTURES

Publications of the 1987 Census of Manufactures, containing preliminary and final data on manufacturing establishments in the United States, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

Preliminary Reports

Industry series—83 reports (MC87-I-20A(P) to -39D(P))

Preliminary industry data are issued in 83 separate reports covering 459 industries. Preliminary summary data for the U.S. and States are released in one report.

Final Reports

Industry series—83 reports (MC87-1-20A to -39D)

Each of the 83 reports provides information for a group of related industries ("dairy products" includes industries for butter, cheese, milk, etc.). Final figures for the United States are shown for each of the 459 manufacturing industries on quantity and value of products shipped and materials consumed, cost of fuels and electric energy, capital expenditures, assets, rents, inventories, employment, payroll, payroll supplements, hours worked, value added by manufacture, number of establishments, and number of companies. Comparative statistics for earlier years are provided where available.

For each industry, data on value of shipments, value added by manufacture, capital expenditures, employment, and payroll are shown by employment-size class of establishment, State, and degree of primary product specialization.

Geographic area series—51 reports (MC87-A-1 to -51)

A separate report is being published for each State and the District of Columbia. Each report presents data for industry groups and industries on value of shipments, cost of materials, value added by manufacture, employment, payroll, hours worked, new capital expenditures, and number of manufacturing establishments for the State, MSA's, counties, and selected places. Comparative statistics for earlier census years are shown for the State and large MSA's. Manufacturing totals are presented for each county and for places with significant manufacturing activity. Detailed statistics (including inventories, assets, rents, and energy costs) are presented only in statewide totals.

Subject series—7 reports (MC87-S-1 to -7)

Each of the seven reports contains detailed statistics for an individual subject, such as concentration ratios in manufacturing, type of organization, water use in manufacturing, textile machinery in place, distribution of sales by class of customer, manufacturers' shipments to the Federal Government, and a general national-level summary.

Reference series—1 report (MC87-R-1)

The Numerical List of Manufactured and Mineral Products includes a description of the principal products and services published in the 1987 Censuses of Manufactures and Mineral Industries.

Location of Manufacturing Plants—1 report (MC87-LM)

This report includes data for number of establishments by four-digit SIC industry and by employment-size class for counties, incorporated places of 2,500 inhabitants or more, and zip codes for each State. (This report is available only on magnetic tape and CD-ROM.)

Analytical Reports—3 reports (AR87-1 to -3)

Exports From Manufacturing Establishments (AR87-1)

This report presents data on exports by two- and three-digit SIC industry groups for the United States and States. Information is presented on value of direct report shipments and estimates of the employment required to manufacture these products. Included are estimates of employment in manufacturing and nonmanufacturing establishments that supply parts, materials, and services for production of manufactured exports.

Selected Characteristics of Manufacturing Establishments That Export (AR87-2)

This report presents data on the number of manufacturing companies and establishments that export by major group, State, employment size, and ratios of exports to shipments.

Indexes of Production (AR87-3)

The indexes presented in this report are designed to measure the change in physical output of each manufacturing and mineral industry between 1982 and 1987.

MICROFICHE

Every final published report in the 1987 Census of Manufactures will be available on microfiche.

PUBLIC-USE COMPUTER TAPES AND COMPACT DISCS

Data from the final industry series, geographic area series, and the Location of Manufacturing Plants report will be available on public-use computer tapes and compact discs—read only memory (CD-ROM). These tapes will provide the same information found in the final reports. Computerized data products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services (Tapes), Bureau of the Census, Washington, DC 20233.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, construction industries, mineral industries, transportation, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1987 Economic Censuses. A separate series of reports covers the censuses of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233.

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